

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **HBLED-LD5-30HE-N-CL-UNV-L740-ED2-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30HE-N-CL-UNV-L740-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

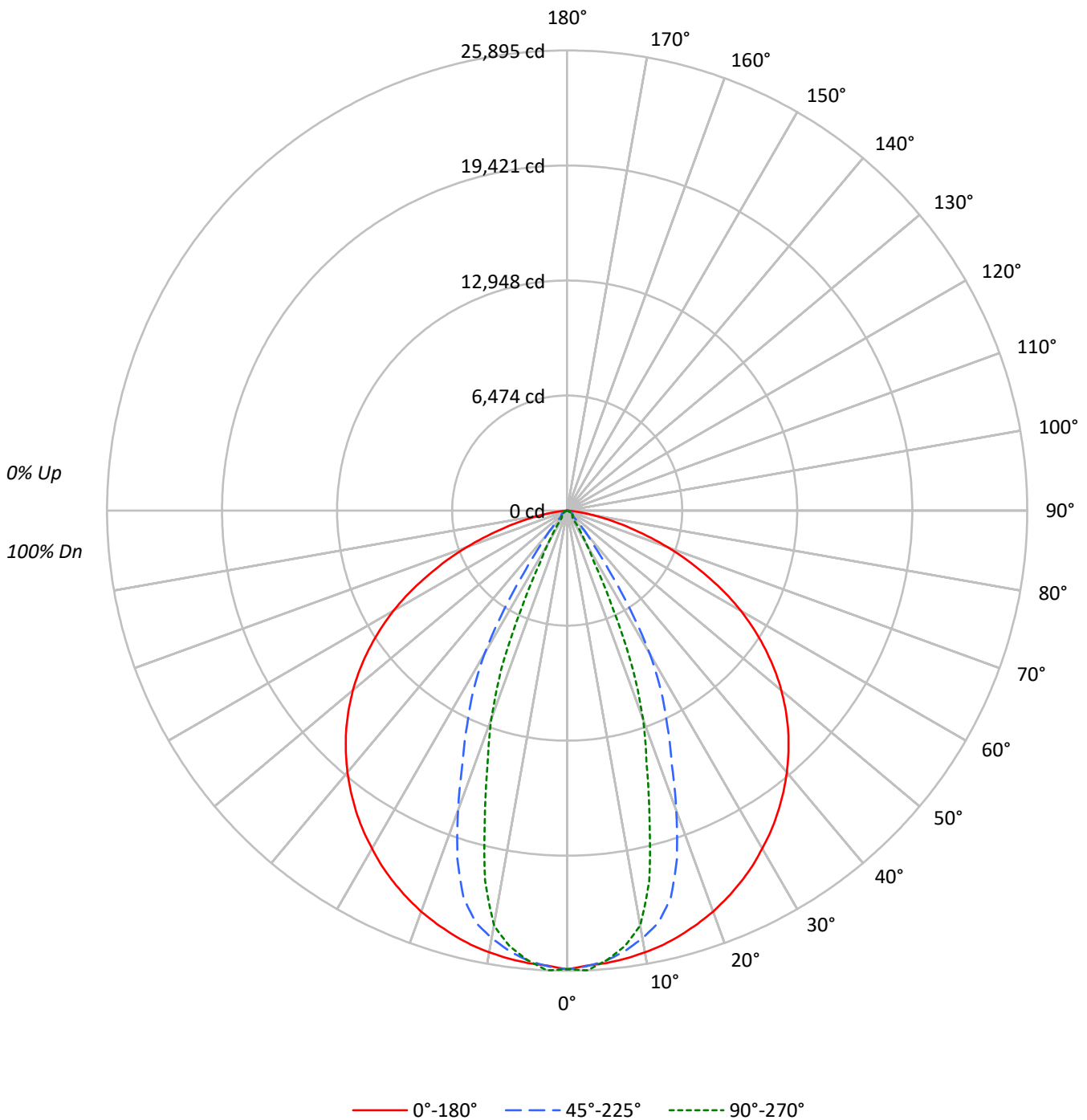
Lumens per Lamp: N/A  
Luminaire Lumens: 27603.0 lumens  
Efficiency: N/A  
Efficacy: 153.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 180  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47					47			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41					41			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	34726	34726	34726
5°	34513	34333	34308
10°	34490	33384	32399
15°	34450	31393	24911
20°	34383	25690	17869
25°	34275	19794	9080
30°	34113	14446	3304
35°	33991	6634	1150
40°	33782	3011	793
45°	33482	1123	804
50°	32948	816	846
55°	31973	858	644
60°	30383	917	569
65°	27554	698	463
70°	23625	504	426
75°	18057	446	405
80°	11298	419	440
85°	3568	489	591



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2402.8	8.7
10°-20°	6053.0	21.9
20°-30°	6592.0	23.9
30°-40°	4931.1	17.9
40°-50°	3545.6	12.8
50°-60°	2177.5	7.9
60°-70°	1253.0	4.5
70°-80°	559.3	2.0
80°-90°	88.7	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	15047.8	54.5
0°-40°	19978.9	72.4
0°-60°	25702.1	93.1
0°-90°	27603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27603.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25810	25810	25810	25810	25810	
5°	25553	25674	25420	25444	25401	###
15°	24732	24258	22537	19355	17884	6981
25°	23088	21431	13333	8554	6116	10643
35°	20694	14842	4039	1187	700	12945
45°	17596	8339	590	437	423	13555
55°	13630	1733	366	354	275	12152
65°	8655	190	219	182	145	8567
75°	3474	115	86	88	78	3769
85°	231	22	32	41	38	461
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	25809.5	25809.5	25809.5	25809.5	25809.5
2.5°	25629.9	25797.6	25656.3	25783.1	25895.4
5°	25553.3	25673.5	25419.9	25443.7	25401.4
7.5°	25421.2	25450.3	24992.0	24815.0	24729.2
10°	25244.3	25166.3	24434.7	24013.4	23713.6
12.5°	25021.1	24763.5	23741.3	22237.0	21340.2
15°	24731.8	24257.7	22536.8	19355.2	17883.9
17.5°	24387.1	23729.4	20542.5	16131.3	14858.1
20°	24013.4	23145.6	17942.0	13715.7	12479.5
22.5°	23572.2	22399.4	15377.2	11407.1	9709.9
25°	23087.5	21431.3	13332.7	8554.3	6116.3
27.5°	22564.5	20154.2	11440.1	5245.9	3307.1
30°	21957.0	18599.7	9297.9	2943.9	2126.4
32.5°	21364.0	16787.7	6641.9	1961.3	1359.0
35°	20694.4	14842.3	4038.8	1187.3	700.0
37.5°	19985.2	13073.8	2527.9	645.8	483.4
40°	19233.7	11396.5	1714.3	458.3	451.7
42.5°	18430.7	9879.0	1073.7	435.8	450.4
45°	17596.0	8339.0	590.4	437.2	422.6
47.5°	16690.0	6667.0	412.1	413.4	412.1
50°	15740.4	4782.3	389.6	408.1	404.1
52.5°	14716.8	2969.0	390.9	398.9	357.9
55°	13629.8	1732.8	365.8	354.0	274.7
57.5°	12487.4	1080.4	357.9	291.9	247.0
60°	11290.8	570.6	340.7	262.8	211.3
62.5°	10016.4	281.3	273.4	224.5	173.0
65°	8654.7	190.2	219.2	182.3	145.3
67.5°	7339.2	171.7	165.1	149.2	126.8
70°	6005.3	157.2	128.1	130.8	108.3
72.5°	4696.5	142.6	103.0	112.3	91.1
75°	3473.5	114.9	85.8	88.5	77.9
77.5°	2416.9	89.8	67.4	75.3	72.6
80°	1458.1	56.8	54.1	62.1	56.8
82.5°	706.6	37.0	42.3	48.9	44.9
85°	231.1	22.5	31.7	40.9	38.3
87.5°	29.1	13.2	26.4	35.7	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)